Tree Inventory for the Town of Brentwood

Prepared by Prestige Tree Experts

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Introduction

This Tree Inventory was prepared in November of 2021 for the Town of Brentwood for the purpose of identifying Town-owned trees, documenting any hazardous conditions that require attention for the benefit of public safety for people and property, and prioritizing the Town budget as it relates to tree pruning, removal, and planting.

Trees are living organisms, and as such, their health can change rapidly. This Inventory was prepared in a few days, which only represents a mere snapshot in time as compared with the trees' entire lifetime. As such, the health ratings and prioritizations can and will change over time. All we can do as arborists is to provide an honest, current assessment based on years of experience working with trees.

Even healthy trees have some inherent risk associated with them. A perfectly healthy tree can fail in severe wind, snow, or ice storms, or when a new pest (bacteria, fungi, or insect) is introduced into the environment. Tree failures can sometimes be sudden and have little warning. However, most trees show signs of weakness or decline before total failure. Arborists look for these signs when making health assessments, and they include substantial deadwood in the canopy, decay and/or cavities in the structural trunk area, vertical cracking of the bark, substantial leans that are not offset by balancing growth, the presence of fungi or other pests, etc..... Additionally, some trees have invisible killers such as root rot (a fungus that damages the structural integrity of the root system and grows entirely underground) or heart rot (decay in the middle of the trunk that creates a hollow, weak trunk). The only way to identify these problems would be to perform invasive root excavations or trunk core sampling that can often cause more harm than benefit.

The best way to mitigate the risk of tree failure is to have routine arborist inspections of trees. This Tree Inventory is the perfect starting point, but we often recommend annual arborist inspection of the trees. In addition to a thorough annual inspection, we encourage you to let us know of any trees that you might suspect are failing or of those that cause the Town or the residents concern. We are always able to come inspect trees and let you know if there is nothing to worry about, or if their health (and resulting priority level) has changed from this initial assessment.

This is not a static document; it is more of a baseline evaluation. We look forward to working with the Town of Brentwood for years to come, to help ensure a happy, safe environment with healthy, strong trees. Once the identified hazards are remediated (and any emerging hazards as time goes on), attention can be directed to routine pruning and healthcare (pesticides, growth regulators, fertilizers, soil amendments, etc.) of the healthy trees and the planting of the next generation of trees.

Definitions

A separate report could be written for each tree that the Town of Brentwood owns; however, that would be an impractically long and dense document, and in our opinion, would not benefit the Town substantially. In order to make sense of this large number of trees, we have consolidated our assessments down to a few words recorded in a spreadsheet.

In order to ensure we are all working "on the same page," we will define the most common terms used in our industry that we have included on the spreadsheet, and explain the spreadsheet's structure.

Tree # - This coincides to the number that is listed on the map, and the physical tag that we have installed on the trees. This is the essence of the tree inventory.

Tree Species (Common) – This is a listing of the common name most typically used in tree identification.

Scientific Name – This is a more specific name typically used by arborists for tree identification.

Tree Health – We condensed this broad topic into three levels: Excellent, Good, and Poor. Trees with Excellent health have little to no deadwood or evidence of failure, good branch and trunk structure, and little to no evidence of pests. Excellent trees can most often be left alone (with a few notable exceptions where their perfectly healthy branches are dangerously blocking a street sign, road, or sidewalk). Trees with Good health have some notable deadwood or other concern that should be addressed. Good trees can easily either move up to Excellent after a little pruning, or fall down to Poor health if the identified issues are not handled, or outside forces (or natural lifecycle processes) exacerbate the issues. Trees with Poor health most often need to be removed, as they are either completely dead already, or have so much structural decay or pest infestation that they cannot be brought back to vigor.

Priority Level – The priority level of action required has been defined as Green, Yellow, or Red. Green level trees have no immediate action required or recommended. They may still benefit from pruning or fertilization, but they can likely go a few years without arborist intervention. Yellow level trees have immediate action "recommended." These are trees that should be strongly considered for arborist care if the budget allows, but that it would not be irresponsible if left until another fiscal year. Red level trees have immediate action required. These are trees that are creating an unsafe environment for people or property in their immediate vicinity, and include dead or dying trees, trees with substantial deadwood, or trees blocking roads or street signs.

Action Recommended – The terms used in this section are defined below:

Elevate – Prune low hanging branches of trees. Typically used over roads and sidewalks to provide more ground clearance.

Remove deadwood – Remove any substantial dead branches in the canopy that are 2 inch caliper or larger. There may be some small dead twigs remaining, but anything large enough to cause damage or injury would be removed. This also includes any branches that have separated from their parent limb and are hanging in the canopy.

Clear – Clear or clearance pruning refers to pruning a tree to ensure the branches do not interfere with something. We typically clearance prune trees around houses, roads, or utility wires about 6-8ft where possible.

Grind and remove stump – Grinding the stump left from removing a tree, and removing the resulting material to level grade.

Grind and grass stump – Grinding the stump left from removing a tree, removing resulting material, and adding topsoil, grass seed, and straw to the disturbed area.

Cut vines – Some trees have vines growing up their trunk. If left unchecked, the vines can eventually choke and kill the tree. We recommend cutting all vines along the first 6 feet of the trunk. That will kill the remaining vines, and they will eventually fall off the tree.

Re-planting Suggestion – For trees that are recommended for removal, we have suggestions for replacement trees. Since there is a large number of trees that would be happy in this area, we have the suggestions broken out as small tree and large tree. Our most commonly recommended small trees are flowering cherries, flowering dogwoods, Kousa dogwoods, Eastern red buds, and crape myrtles. The most common large trees are oaks (pin, willow, red, white, swamp, and black), maples (red, sugar, Norway), sycamores, Zelkovas, and Chinese elms. Any of these trees would work well in their respective planting areas. If you have any trees that you would like, please let me know, and I can let you know if that would work well, and if so, which size class it most closely resembles. *Important Note – We do offer tree installation, but that is not included in the price of recommended service on the spreadsheet. If you would like pricing for that, please let us know!*

Price – The cost of performing the recommended service.

Reference Address – The closest address to the trees, or a reference street or area to aid in location.

Notes – Where we have included any extra notes, reasons, or justifications for the recommended services, priority levels, or health designations.

DBH – DBH stands for the Diameter (of the trunk) at Breast Height (about 4.5ft off the ground) and is measured in inches. DBH is an industry standard for the relative size of trees. For this tree inventory, we have excluded trees with a DBH less than 10 inches, as they are too small and insignificant to cause damage or trouble. For this inventory, some DBH measurements are approximate. For multi-trunk trees, total DBH is calculated by adding the DBH of the individual trunks.

Longitude and Latitude – It is our understanding that the longitude and latitude of trees will be the best way to import this Inventory into a GIS format. When the Town gets one, you should be able to upload all the information (provided as a .csv file type in the email), and everything should integrate nicely. If our data or format needs to be edited to accommodate that, please let us know, and we will be happy to work with you.

Maps

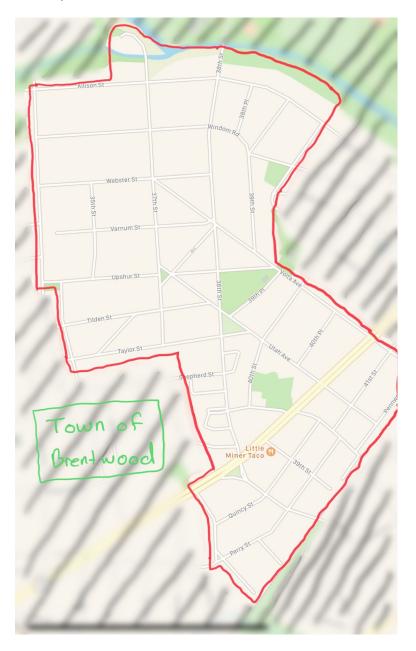
Due to the number of trees and relative size of the Town, we have broken the maps into three parts. Map 1 shows the area from Upshur to Rhode Island, Map 2 shows the area from Allison to Upshur, and Map 3 shows the area "under" Rhode Island. We have also prepared a zoomed in map of the parks due to the high volume of trees in relatively small areas. In general, the map key is as follows:

Red Line – approximate Town Limits

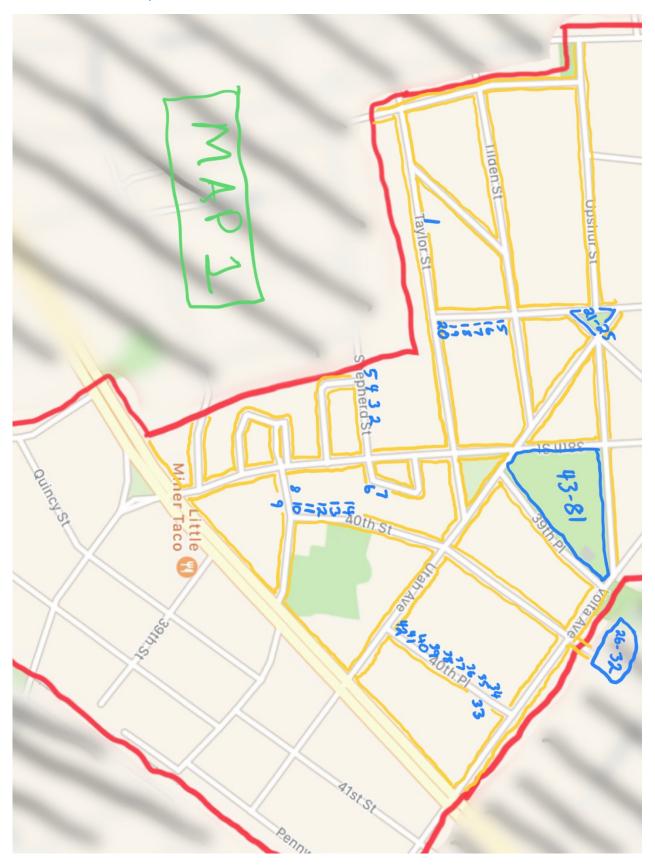
Yellow Line – clear / no Town-owned trees identified

Blue Numbers – tree numbers at approximate location

Brentwood Full Map



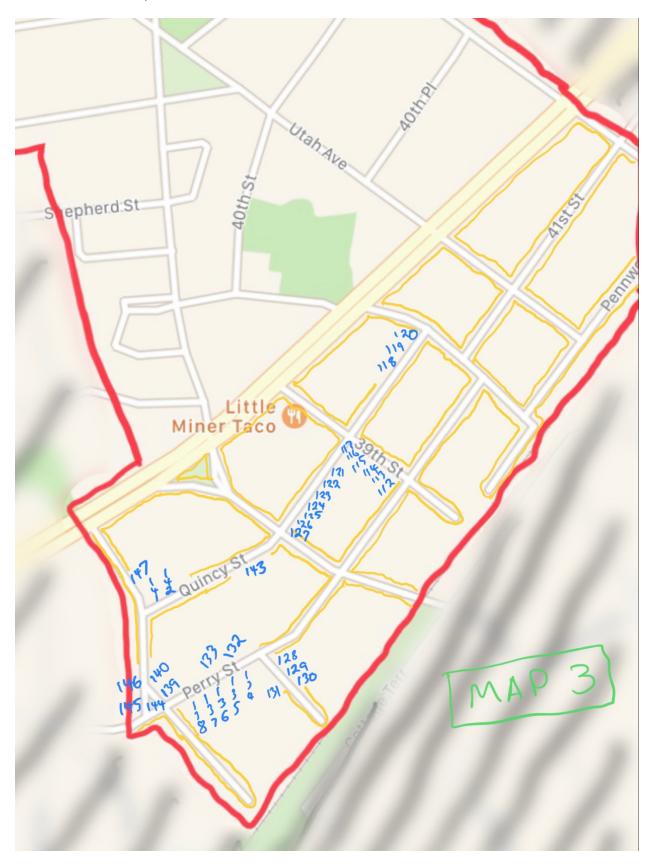
Brentwood Map 1



Brentwood Map 2



Brentwood Map 3



Brentwood – Veterans Park



Brentwood – Town Hall



Brentwood – Small Park

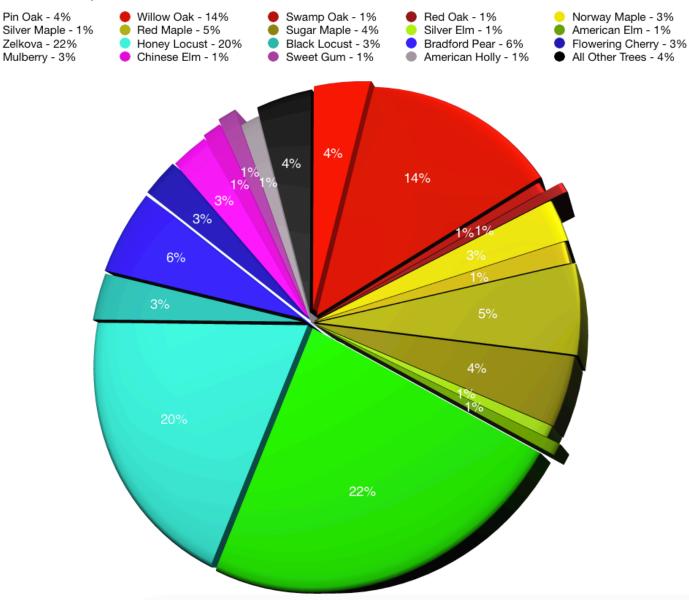


Tree Inventory Data

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Inventory Breakout

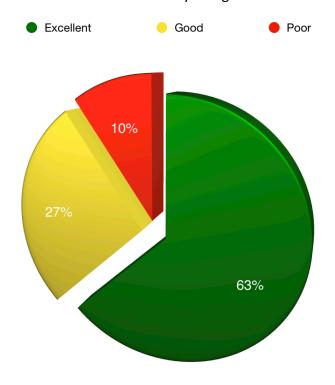


This chart is a visual representation of the tree species present in the Town of Brentwood. The reds are various oaks (about 20%), the yellows are maples and elms, which are members of the maple family (about 15%), the green are Zelkovas (22%), the light blues are locusts (23%), the dark blues are flowering/ornamental fruit trees (about 9%), and the others are various groups not readily lumped into a general category.

In our opinion, this shows a *great* species diversity for town-owned trees. Planting too many of the same type of tree can have devastating effects if a species-specific pest is introduced to the area (Emerald Ash Borer for ash trees, Dutch Elm Disease for elms, Bacterial Leaf Scorch for oaks, etc.). These results show you are at low risk for deforestation in the event of a species-specific infestation.

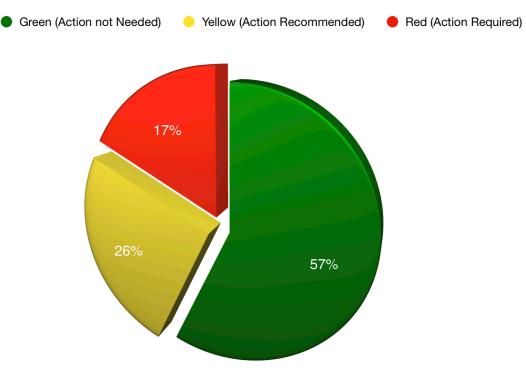
Tree Health Results

A breakdown of Town-owned tree health by categorization Excellent, Good, and Poor.



Priority Level Results

A breakdown of Town-owned tree priority level by categorization Green, Yellow, and Red.



Pricing Overview and Discount Offerings

As requested, we included an itemized price in the Inventory for each recommended and required service to the trees. However, we are able to apply bulk discounts to larger jobs. In addition to that, Winter is a slow time of year for tree companies, so we can offer a bulk and winter discount if you would like to move forward with the work soon!

Since it would be nearly impossible to break out all of the item combinations, we have prepared bulk discount offerings for two main scopes of work. If you would like to revise the list of included trees, please let us know, and we will be more than happy to adjust a bulk discount offering.

Red Level Trees

<u>Subtotal for all Red Level trees:</u>

\$30,950

<u>Bulk Discount if all Red Level trees are performed at the same time:</u> \$27,000

Bulk Discount if all Red Level trees are performed at the same time in January, February, or March of 2022: \$24,000

Red and Yellow Level Trees

Subtotal for all Red and Yellow Level trees:

\$51,600

<u>Bulk Discount if all Red and Yellow Level trees are performed at the same time:</u> \$45,000

Bulk Discount if all Red and Yellow Level trees are performed at the same time in January, February, or March of 2022:

\$40,000 (best value)

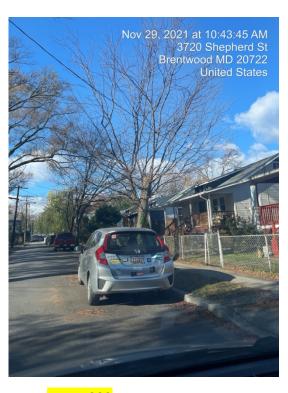
Pictures of Yellow and Red Priority Trees



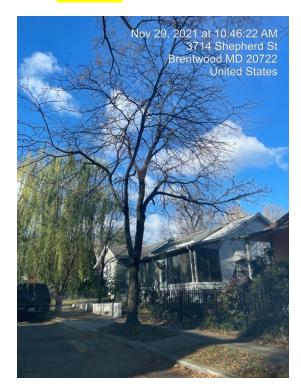
Tree #001



Tree #003



Tree #002



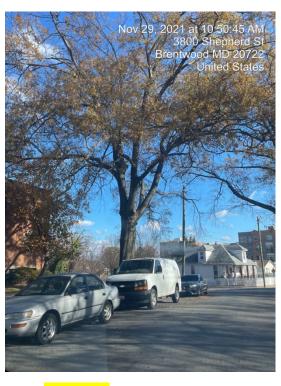
Tree #004



Tree #005



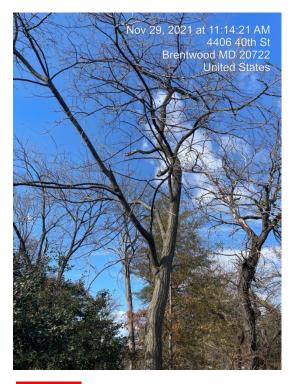
Tree #009



Tree #008



Tree #023



Tree #026



Tree #028



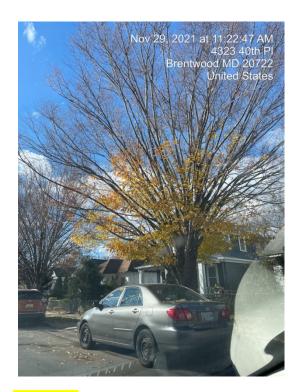
Tree #027



Tree #029



Tree #031



Tree #034



Tree #032



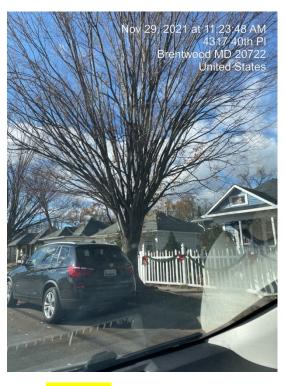
Tree #035



Tree #036



Tree #038



Tree #037



Tree #039



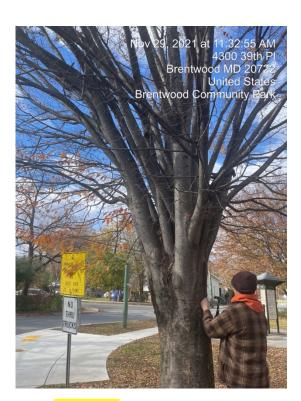
Tree #040



Tree #042



Tree #041



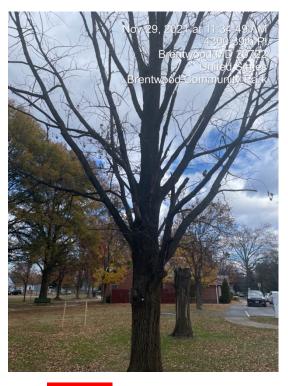
Tree #047



Tree #049



Tree #052



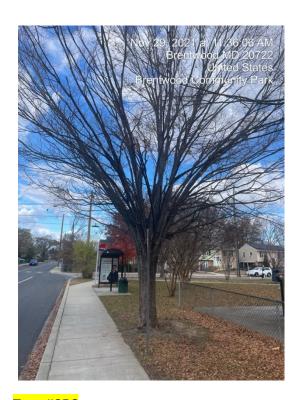
Tree #051



Tree #053



Tree #054



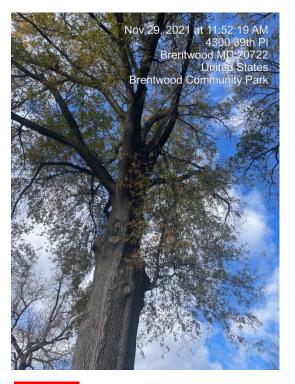
Tree #056



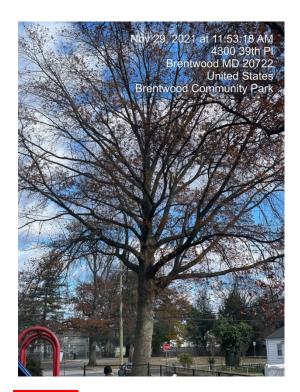
Tree #055



Tree #062



Tree #072



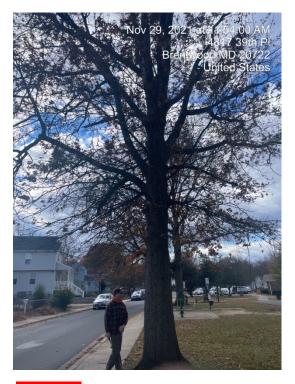
Tree #074



Tree #073



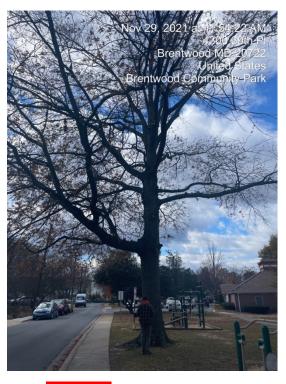
Tree #076



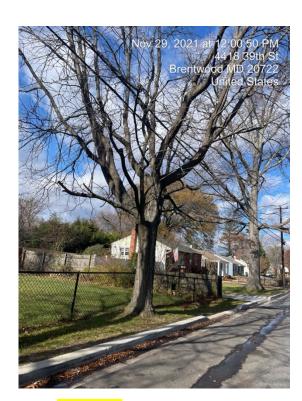
Tree #077



Tree #082



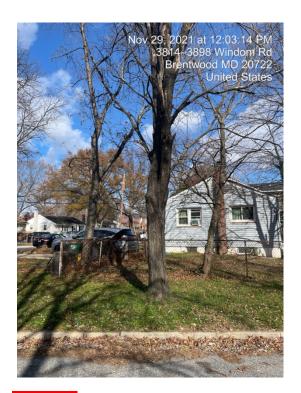
Tree #078



Tree #083



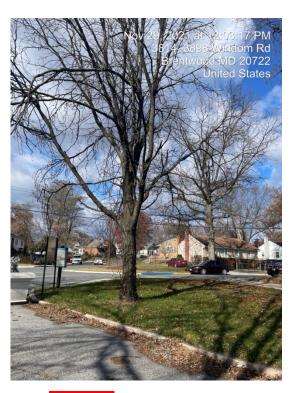
Tree #084



Tree #086



Tree #085



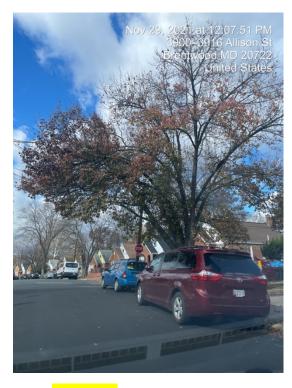
Tree #087



Tree #088



Tree #091



Tree #090



Tree #093



Tree #094



Tree #111



Tree #095



Tree #120



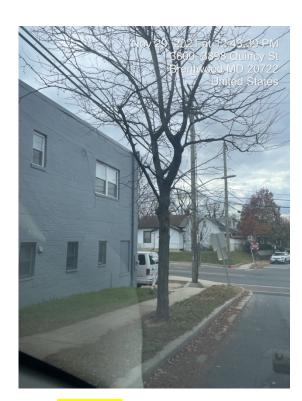
Tree #121



Tree #126



Tree #125



Tree #127



Tree #139



Tree #141



Tree #140



Tree #142



Tree #144



Tree #146



Tree #145

- END -